

U. S. DEPARTMENT OF ENERGY
ROCKY FLATS PLANT
ENVIRONMENTAL RESTORATION PROGRAM WEEKLY REPORT
WEEK ENDING AUGUST 13, 1993

Section I - Interagency Agreement (IAG)

OU 1 - 881 Hillside-Phase III Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Remedial Investigation (RI)

Work continues on the RI Report. EG&G direction and review are proceeding on several sections of the report. Based on RFO and EG&G input, comment responses are being revised.

Based on RFO comments, revisions to the Interim Measures/Interim Remedial Action (IM/IRA) quarterly report are underway.

The Wetlands Status Report is progressing and will be completed for the August 30, 1993, EPA delivery date.

Feasibility Study/Corrective Measures Study (FS/CMS)

Work on the FS is progressing. Technical Memorandum (TM) #10, *Preliminary Remediation Goals*, is currently under revision and will be received by RFO on schedule on August 15, 1993. The revised initial screening of technologies and process options are currently being reviewed.

OU 1, 881 Hillside Interim Measures/Interim Remedial Action (IM/IRA) Treatment Building 891

No water was treated this past week because of low levels of water in the French drain. Water remains in T206 for discharge into the wetland, when needed. The result from the dissolved iron sample from T205 showed that the result was still above Applicable or Relevant and Appropriate Requirements (ARAR). This tank will be retreated through the ion exchange (IX) system to bring down the levels of iron in the water.

Pump P-102 (French Drain sump pump) remains inoperable. Electricians are currently working to resolve the problem and bring the pump back on-line. Problems associated with the lightning strike have not been resolved. Efforts to correct these problems will continue.

The impeller, housing, and O-ring on Pump P-210 (Neutralization Tank Pump) were replaced. It is suspected that a missing retaining ring caused an irregular shaft rotation and led to the seizure of the impeller around the shaft. The pump is now fully operational.

Revisions to the Second Quarterly Report for 1993 are currently underway.

Monthly sampling on the 881 Hillside sample points was performed last week.

Total treated ground water for OU 1

Treated Ground Water this Week:	0 gallons
Total treated to date:	1,524,000 gallons

OU 2 - 903 Pad, Mound, East Trenches Area

EG&G Ecology and NEPA (National Environmental Policy Act) Division (END) has been contacted concerning the revised amounts of soil to be excavated for OU 2. Revised volumes have been generated based on the continuing data collection and evaluation for the OU 2 Draft Phase II RFI/RI Report.

Remedial Assessment

Demobilization of the field program is continuing along with slug testing for the remaining wells. Development of the B-Series well is continuing.

A purchase requisition and Statement of Work (SOW) have been generated for posting the americium zone. The Integrated Work Control Program (IWCP) has been started as well as the excavation and land use permits.

Subsurface IM/IRA

Drilling for installation of the vapor extraction and air injection wells began on August 9, 1993.

The Health and Safety Plan (HSP) has been finalized. Excavation, land use, and radiation work field permits were acquired. The IWCP were finalized August 11, 1993.

A draft of the IM/IRA Implementation and Operation Plan for the Soil Vapor Extraction Pilot Test has been reviewed and comments are being incorporated.

The draft Project Management Plan (PMP) has been developed and is being finalized.

Efforts continue to subcontract the detailed portion of the Soil Vapor Survey.

Surface Water IM/IRA

Until comments are received from the regulatory agencies on the Draft OU 2 Surface Water IM/IRAP Treatability Study Report, no action will be taken to finalize it.

Surface Water Interim Measure/Interim Remedial Action Plan (IM/IRAP)

Four 55-gallon drums of sludge from the Field Treatability Unit (FTU) were packaged this week.

A new procedure has been initiated to analytically measure the percent solids in the concentration tank. This will allow the system to be operated more precisely.

Now that the flows are decreasing due to warmer weather, a rigorous preventive maintenance program has been implemented to assure proper maintenance, calibration, and performance of all equipment. The Rads Removal System has been repainted as part of the preventative maintenance program.

Total Treated Surface Water for OU 2

Tasks treated surface water this week: 106,720 gallons
Total treated water to date: 17,252,200 gallons

OU 3 - Offsite Areas

EPA sent a letter to RFO on August 11, 1993 approving the schedule extension request for OU 3. The extension dates for the Draft and Final RFI/RI Reports are February 14, 1994, and October 21, 1994.

OU 4 - Solar Evaporation Ponds Phase I RFI/RI Program

Implementation of the Technical Memorandum (TM #1), *Vadose Zone Investigation*, continues in the form of lysimeter sampling and neutron monitoring. Biweekly water level measurements continue on all Phase I piezometers, piezometer groups, and selected RCRA monitoring wells within OU 4.

Data evaluation and report writing continues on schedule for the OU 4 Phase I RFI/RI program. The preliminary draft of Section 3, *Site Investigation*, of the Phase I RFI/RI Report has been reviewed and comments have been made.

The draft TM #8, *Horizontal Drilling*, has been reviewed by EG&G and comments are being incorporated. The final draft report was reviewed and commented on by EG&G on August 12, 1993.

A draft "Streamlined" IM/IRA schedule continues to be developed in support of the dispute resolution on the OU 4 Phase I RFI/RI Reports.

The EG&G Solar Ponds staff is conducting a Technical Evaluation of the OU 4 Interim IM/IRA proposal.

OU 5 - Woman Creek

The aquifer testing is in progress, and was completed by August 10, 1993. This is the last of the scheduled field work at OU 5 for the Phase I RFI/RI.

Draft TM #12, Exposure Scenarios, was received by the regulatory agencies on July 7, 1993. EPA review is still pending.

OU 5 has been selected for a DOE technical (and maybe financial) audit. The kickoff meeting is scheduled for August 16, 1993.

A meeting has been scheduled for August 30, 1993, among the regulatory agencies, RFO, and EG&G. The purpose of the meeting is to develop a presentation discussing recently completed field activities, justification for milestone extensions, and an overview of the proposed Phase II activities.

OU 6 - Walnut Creek

TM #3, Modeling Surface and Ground Water, was submitted to the regulatory agencies on August 4, 1993. Comments from the regulatory agencies on this TM are due September 6, 1993. Comments from the regulatory agencies on TM #2, Exposure Scenarios, were due by July 28, 1993. RFO was informed by EPA that its comments would be late.

Work continues on database tables to sort data by IHSSs and contaminants.

OU 7 - Present Landfill

Work on the RFI/RI Report is being negatively impacted because of the lack of resolution on techniques for comparisons of site data to background concentrations. Guidance from RFO has been to implement the recently approved OU 7 process flowchart for background comparisons.

Schedule acceleration through project streamlining has been proposed to CDH. EPA would have to approve this proposal before any changes to the schedule would be made. Written guidance is forthcoming.

OU 8 - 700 Area

The revised HSP for implementation of nonintrusive field work for the Industrial Area/Operable Units (IA/ OUs) 8, 9, 10, 12, 13, 14 will be received by RFO during the week of August 13, 1993, after all EG&G revisions have been incorporated into the final draft HSP.

OU 9 - Original Process Waste Lines (OPWL)

Site walk portions of data compilation continued, which includes visiting each tank site to prepare a sketch map and indicate specific locations to take soil samples, residue samples, etc. Tanks in 100 Area, north of 771, and east of 774, and tanks in the 500 area were visited. This data compilation will form the basis for TM #1, *Field Sampling Plan, Part 1 Tanks*. Within TM #1, Part 1 for each tank site, the following will be covered: Work Plan, Work Plan Appendices, IAG Table 5, Historical Release Report (HRR), Site Walk Results, and will conclude with what will be proposed at this site, what samples will be collect where, and what analytes will be run.

OU 9 is meeting with groups at RFP who manage tanks and have proposed a Process Management Team (PMT) on tanks.

OU 10 - Other Outside Closures

Evaluation of the High Purity Germanium (HPGe) survey data for OU 10 continues. Initial indications show no significant radioactivity above background levels for those IHSSs in OU 10 that have been completed to date. The HPGe system is currently completing the survey for OUs 8, 13, 14, and outside the Protected Area (PA). The remainder of the HPGe surveys to be completed in the PA are scheduled to begin August 30, 1993.

A revised cost evaluation is being performed by EG&G Procurement. This new cost evaluation will include all hours and tasks that were agreed upon during the final subcontract negotiations. The letter contact was expanded on July 13, 1993, to allow the subcontractor to begin work on all tasks for the IA OUs. The final subcontract award will follow completion of the cost evaluation, which is anticipated to be completed by mid-August.

Waste Removal Status for IHSSs 170/174 and 176

A cost estimate for removal of materials covering all the IA OU IHSSs has been received by EG&G. An estimated \$1.2 million will be necessary to remove materials to support environmental investigation of the IA OUs. These funds will come out of the FY94 budget. If additional funds become available in FY93, they will be used for waste removal activities this year.

OU 11 - West Spray Field

Schedule acceleration through project streamlining has been proposed to CDH. EPA would have to approve this proposal before any changes to the schedule would be made. Written guidance is forthcoming.

The streamlining proposal is under development for OU 11. It has been established that some degree of vadose zone monitoring would be beneficial to support the investigation. Other techniques being scoped out

include some degree of soil borings, surficial soil sampling, and ground water sampling. Exact numbers are yet to be determined. A draft has been completed and is now being reviewed and evaluated.

OU 12 - 400/800 Area

The contract for the integrated OUs has not yet been awarded. The delay in awarding the contract has moved the field work schedule back by approximately 11 weeks. The implementation of the IA/OU field work is being expedited to try and recover some of the delay. The total impact on FY93 and FY94 activities are being investigated and are not yet known at this time.

Discussions have taken place regarding the estimate of work that will be completed by the end of the year and IHSS intrusive activities that could be performed during FY94. Differing costing and scheduling scenarios continue to be developed.

OU 13 - 100 Area

HPGe activities in OU 13 were completed on August 9, 1993. Although the data acquisition is complete, a more comprehensive analysis of the data is warranted and several areas may need further evaluation.

OU 14 - Radioactive Sites

The activities for FY94 continue to be entered into a software scheduling program, along with the logic ties, to facilitate the integration of activities with the other Integrated OUs 8, 9, 10, 12 and 13. This exercise will lead to development of the scope and schedule for activities beginning in FY95 and beyond.

The Progress Tracking System Monthly Report was reviewed and updated for the monthly of July 1993.

OU 15 - Inside Building Closures

Floor/equipment hot water rinsate sampling within Building 881 was completed this week.

Delays to OU 15 field work were experienced because of the need to downgrade Personal Protective Equipment (PPE) from Anti-Contamination (Anti-C) to modified Level D. Issues have existed for several weeks as to the type of PPE that should be assigned. The RPTs have specified Anti-C versus Modified Level D specified in the OU 15 HSP based on the RPTs preliminary radiological survey results.

EG&G sent a letter to RFO regarding strategies for meeting future OU 15 IAG milestones and requesting an extension to the OU 15 IAG schedule. The IAG schedule for OU 15 includes submittal of the Draft and Final Phase I RFI/RI Reports on August 1, 1994, and January 4, 1995, and it has been estimated that these dates will not be met. Delays in starting field work and new document review requirements have negatively impacted this schedule.

EG&G has recommended that a new schedule be provided for the review and approval by the regulatory agencies for TM #1, Field Sampling. This option should be taken since a well defined scope of work for Stage III field work outside buildings will be available within TM #1. TM #1 is scheduled to be submitted to the regulatory agencies during FY94.

OU 16 - Low Priority Sites

The Progress Tracking System Monthly Report was reviewed and updated for the month of July 1993.

Integrated Operable Units - OUs 8, 9, 10, 12, 13 and 14

The letter subcontract was expanded on July 13, 1993, to allow the subcontractor to begin work on all tasks for the IA OUs. Official contract award will follow completion of the cost evaluation and will be completed in mid-August 1993.

Work continues to integrate OU schedules for the IA OUs for FY94. Each IA OU schedule for FY94 will be linked together by the work package system.

Industrial Area (IA) Interim Measures/Interim Remedial Action Plan (IM/IRAP)

The SOW for the IM/IRA has been completed and is currently under review. It is expected to be delivered to Procurement early next week. The regulatory agencies have given approval to the scope and schedule.

Sitewide Activities

Sitewide Treatability Studies Work Package

This is the work package that supports the Sitewide Treatability Studies. The budget for this work package for FY93 has been increased. The added funds are to provide contract support for the risk assessment and analysis activities for the OUs.

This work package is supporting the following treatability studies and other activities for FY93: Physical Separation (TRU/Clean); Chemical Separation (NRT); Potassium Ferrate Precipitation (TRU/Clean); Adsorption; Colloid filter polishing method (Techtran - SITE Demo); Plasma Melter (Lockheed AWC); Solar Detoxification (SAIC and NREL); Annual Report preparation; work package management; pondcrete evaluation report; bioremediation literature search and technical proposal preparation; colloid studies; flow pump testing; seep study; and the acquisition of an Inductively Coupled Plasma - Mass Spectrometer (ICP-MS).

The FY94 work package has been divided into two work packages: The Sitewide Treatability Studies work package will support the treatability studies projects, and the Remediation Technologies work package will support the risk assessment activities required by the various OU feasibility studies.

Colloid Polishing Filter Method (CPFM) (Techtran)

This process uses a proprietary chemical complexing agent to remove heavy metals and/or radionuclide contaminants from waste water or ground water. The contaminants are removed from the water by precipitation and filtration. Ultimately, the contaminants are contained in a dried filter cake, and the treated water is returned to the environment. Results of preliminary tests carried out at RFP in 1991 were favorable. EPA's Risk Reduction Engineering Laboratory (Cincinnati) is interested in supporting a demonstration of this technology at RFP through its Superfund Innovative Technology Evaluation (SITE) program.

RFO issued guidance that the EPA SITE project have highest priority in the sitewide treatability program, and that every effort be made to complete the project by the end of August 1993. EPA agreed to fund the study; funds were diverted from other tasks in the sitewide work package to begin the necessary preparation work for the project. Several other tasks within the work package will be delayed until the SITE project is completed.

The use of an inflatable temporary berm to be used in the project as a secondary containment device has been under discussion by the subcontractors. Use of an inflatable temporary berm would eliminate 6-8 weeks of time (from the time necessary to begin field tests of the technology through the elimination of the engineering and procurement lead times required for a permanently constructed berm).

The existence of a NEPA categorical exclusion (CX) was investigated for the project under the sitewide treatability exclusion, RFO/CX031-92. However, this CX was specifically written for laboratory studies and will not apply to this project. As a result, actions were started to provide a separate CX for this project. An environmental checklist and Section D Determination were created and submitted to the Plant NEPA Compliance Committee (NCC). The committee voted to recommend a CX for this project and forwarded its recommendation to RFO on July 6, 1993. The NEPA documentation is undergoing final RFO review and should be approved by August 27, 1993.

Samples from each of the temporary modular storage tanks were requested on July 13, 1993, to ensure that the tank contents would be appropriate for the proposed test work. Sampling was scheduled for July 20, 1993, with a 2-week sample analysis turnaround expected from the laboratory. Analytical results for the TOC showed that the three samples contained 6.1, 8.0 and 7.0 mg/L. The total uranium and gross alpha results will be reported next week.

Personnel training requirements for the project were identified and the necessary computer-based training courses will be scheduled at RFP.

RFO requested approval for the EPA SITE demonstration from the regulatory agencies on June 24, 1993. EPA granted approval for the project on August 5, 1993; approval from CDH is still pending.

Approval of the HSP is pending final review. The revised Work Plan (Demonstration plan) was received on August 9, 1993. This plan is under going final review by the EPA Risk Reduction Engineering Lab (RREL).

A meeting was held with EG&G Sample Management Office (SMO) to discuss a pathway to send samples offsite for laboratory analysis. SMO offered to have project samples scanned and packaged for offsite shipment. The decision on the laboratory where samples will be sent is still being reviewed by EPA and EG&G.

The technology vendor visited the plantsite on July 21, 1993. The purpose of the visit was to review the site where the test work will take place and hold discussions with representatives of radiological engineering to consider ways to ensure that the equipment used in the test work will be capable of being decontaminated and transported offsite. Rad engineering outlined the steps that are required to allow the equipment to be decontaminated properly and released offsite.

OU-2 Feasibility Study

The Draft Statement of Work (SOW) for the OU 2 FS (and other OUs) has been completed and reviewed. All comments have been addressed or incorporated into the document. The SOW was delivered to Procurement by August 13, 1993.

Other Activities

Interagency Agreement (IAG) Human Health Risk Assessment (HHRA) Issues Addressed

A letter was sent on August 5, 1993, from N. M. Hutchins, Acting Associate General Manager, ERM, to A. H. Pauole Acting Manager, DOE-RFO, to request a stop work period of 60 to 90 days to resolve several fundamental differences in Human Health Risk Assessment (HHRA) methodology for OUs 2, 3, 4, 5, 6, and 7.

Land Use

No Soil Disturbance Permits have been received so far this week.

Three or four Land Use Requests are pending or have recently been approved. Included are the Wetland Characterization study, and the Soil Vapor Extraction Study at OU 2.

Fences Around the Protected Area Decontamination Facility (PADF)

Approval to proceed with the fences around the (PADF) and also the Main Decontamination Facility (MDF) has been granted. The fire department has also approved the gates for the MDF as long as standard locks are on the gates.

Historical Release Report (HRR) Quarterly

RFO submitted the HRR quarterly update to the regulatory agencies on August 2, 1993. The report consisted of six reportable findings and/or incidents.

Polychlorinated Biphenyl (PCB) Issues

A meeting was held among EPA, E&WM Toxic Substance Control Act (TSCA) Programs group, RFO and EG&G to discuss PCB issues such as cleanup criteria, waste generation, and future schedules. The EPA insisted cleanup criteria for "old PCB Spills" be 2 ppm PCB soil contamination.

Repackaging of Old Decontamination Pad Drums

An IWCP work Package is in its final stages of completion to address the repackaging of 60 old decontamination drums located in the EG&G Facility Operations Yard. Repackaging operations are tentatively scheduled to begin in the second week of September 1993.

Main Decontamination Facility (MDF)

The Master Task Subcontract awardee for Environmental Restoration Decontamination Operation continues to be trained in the operation of the MDF. The awardee is being trained in one task at a time, and when properly trained the new subcontractor will be released to work on its own. August 24, 1993, is the tentative scheduled date for the new subcontractor to perform all tasks on its own.

Plans are in the preliminary stages of designing the training program and qualifications for equipment operators to perform equipment decontamination at the PADF and/or the MDF. A qualification card will be required prior to performing any decontamination work at the pads.

Radiological and environmental readings at the MDF and the PADF were at background levels. The MDF was RCRA inspected throughout the work week.

2,500 gallons of waste water were transferred to 374 Evaporator.

The Decontamination Operation continues to support the movement of drums from the buffer zone and into the 90-day storage area located in the field operations yard.

RCRA Unit Management

RCRA Unit 18.03 has 42 OU 1, 124 OU 2, 4 Well Abandonment and Replacement Program (WARP), 214 OU 5-OU 6, 92 OU 7, 167 Decontamination Pad, 294 OU 2 BR (Bedrock) and 2 Ebasco (EB) Underground

Storage Tank (UST) drums for a total of 939 drums stored in it. Forty-four of the 553 that were Real-Time Radiographed (RTRd) have detectable water. One hundred sixteen drums from RCRA Unit 18.03 originally characterized with no exceedances are in the Facility Operations Yard and are being readied to be sent back to RCRA Unit 18.03. One hundred eighty drums from OU 2 BR are presently being stored at RCRA Unit 1940 and are being readied to be shipped to RCRA Unit 18.03 or RCRA Unit 18.04.

RCRA Unit 18.04 has 44 OU 2 BR, 32 OU 5, and 32 WARP drums for a total of 108 drums stored in it.

There are 1,833, 55-gallon drums and 1,757, 30-gallon drums for a total of 3,590 environmental gray drums.

Data Prepared for the General Accounting Office (GAO)

Data to support the GAO survey of Environmental Restoration Assessment Contracting is being prepared. The RFP Management and Operations (M&O) contractor assessment costs from FY89 through July 1993 have been compiled, and a list of 101 ER assessment subcontracts active in FY93 was prepared. In an agreement with the Albuquerque GAO representative, the original request for a breakdown of subcontract costs into cost elements will be deferred until the GAO reviews the subcontract list. The GAO representative will be back at RFP the week of August 16, 1993 to continue the survey.

Data for Office of Inspector General

The DOE Office of Inspector General, onsite at RFP for an audit of the RI/FS process, requested a list of 15 items (data and documents). Ten of the items were delivered on August 4, 1993. Documents to comply with the remaining five items are on order.

Administrative Record

As a first step in bringing the Administrative Record functions in-house, a new process has been implemented whereby OU managers will review a list of documents selected for inclusion in the Administrative Record prior to forwarding the documents to the subcontractor. This will eliminate the end-of-the-month scramble to get RFO and EG&G OU Managers' approval of documents selected and create a steady flow of documents to the subcontractor during the month.

Review Continues on the ERM Administrative Training Procedures

Review continues of the ERM Administrative Training Procedures for compliance with applicable DOE Orders and other regulatory directives. DOE Order 5480.20 and E-4 mandate that there be consistency in the training requirements. Such consistency will facilitate preparation of documents in compliance with such orders and directives.

Review Completed on Preparation, Review, and Approval of Quality Assurance Plans (QAP)

A document review has been completed on Preparation, Review, and Approval of Quality Assurance Plans, 1-C40-QAP-02.01. This document provides guidance for developing QAP. ER has exercised the option of establishing an organizational QAP titled, Quality Assurance Plan Description (QAPD).

Sample Management Office (SMO)

Total number of unique samples shipped to offsite laboratories is 163 samples. Additional ER/EP samples analyzed onsite is 44.

The laboratories continue to have problems delivering metals data. Approximately 120 OU 4 samples are delinquent by 9 to 92 days; 55 days is the median. Work is being done to rectify this problem. Most of the delays appear to be related to difficulty in electron data deliverable (EDD) generation; however, some problems with the data have been identified and some samples are being rerun.

This week two new programs have started sampling. OU 2 subsurface soil sampling and OU 15 RFI have both gone into the field in the last week.

Aquatic samples are still being held for OU 5 and OU 6, and OU 2 aquatic samples are still being checked on. The delay stems from the request for lower biota detection limits and the lengthy start up of the selected laboratory. Once Procurement has completed the necessary paperwork, the samples will be shipped.

Section II - Solar Ponds Remediation Project (SPRP)

Regulatory

One of the documents prepared for the Building 910 waste treatment operation was a Quality Assurance Addendum (QAA). RFO received "conditional approval" of the QAA from the CDH. This approval was conditional based on the CDH estimation that a Prevention of Significant Deterioration Permit for air emissions would be preferable to the air permit that has been obtained and was described in the QAA. CDH s

conditional approval is adequate to support the building operations, and the limitations imposed in the air permit will not prevent Building 910 from accomplishing its mission.

Pond sludge Status and Issues

The first draft of the overall project for accelerated pond sludge removal schedule was issued for review to all members of the project team. The project remains on schedule for finalizing the clean-out plan by September 7, 1993. Team members also continued preparation of the Design Criteria Package for accelerated pond sludge removal. The Block Flow Diagrams for sludge pumping were finalized. Design specifications of the polyethylene tanks to be used for sludge storage continue to be developed. Preliminary layouts of how the containers would be placed in Tents 3, 4, and 6 were developed.

Water Management Status and Issues

	This Week	Total (since 4/1)
Pond water to Bldg. 374 : (gal)	0	1,405,000
Modular tank water to Bldg. 374: (gal)	0	331,000
Modular tank water to Bldg. 910: (gal)	0	60,000
Pond water & sludge volume: (gal, Approx)	1,273,000	
Interceptor Trench Flow: (gal)	19,500	750,000
Available Modular Tank Volume: (gal)	566,500	(926,500 max)

Ponds 207 A and 207 B center are empty & dry.

The Building 374 evaporators are back on-line, but they are expected to continue plugging with sludge in the tubes. No pond water was pumped to Building 374 this week and none is scheduled for next week. Pumping will no longer be necessary once the excess water has been removed from the ponds.

Building 374 processed 652,075 gallons of water from all sources during July 1993. This figure is down to about half of the building's normal rate because of downtime for repair and problems with the tubes plugging.

EG&G is not operating the Building 910 evaporators because of a ruptured feed line. The repair of this line is scheduled for completion on August 17, 1993.

Water from 207B South pond has been pumped to the North pond to obtain a more accurate assessment of the total sludge volume. EG&G plans to perform this assessment during the week of August 9, 1993. SPP still plans to turn the 207B North pond over to Rocky Flat's Radiological Operations Department for surveying by August 20, 1993.

Section III - Surface Water Management

Pond Water Management IM/IRA

RFO received the quarterly Project Status Report for the Pond Water Management IM/IRA decision document on July 30, 1993. The IM/IRA narrative and numeric water quality criteria, the listing of potential IM/IRA options, and the screen that will be used to filter and select the options have been reviewed and finalized.

Status of the South Interceptor Ditch

An informational meeting was held among RFO and EG&G on August 4, 1993, to explain the current status of the South Interceptor Ditch (SID) and eventual repair work. Sandbags will be used as an interim measure to maintain the integrity of the SID. If the resources for cleaning out the culverts do not exist on plantsite, the possibility of hiring an independent contractor from offsite will be evaluated as part of the temporary solution.

Bench-Scale Treatability Study of 903 Pad Soil Remediation

Work continues on a treatability study of steam stripping of radionuclide from OU 2 (903 Pad) soils. A Work Plan for bench-scale testing of soil decontamination by chemically enhanced steam stripping has been drafted. The Work Plan covers FY93 bench-scale, proof-of-principle testing to be done jointly by Los Alamos National Laboratory (LANL) and RFP. Anticipating formal approval to start work, soil samples for Phase I testing were collected and will be sent to LANL next week.

Section IV - Meetings

Sample Management Office Meeting

A meeting was held with EG&G Sample Management Office (SMO) to discuss a pathway to send samples

offsite for laboratory analysis. SMO offered to have project samples scanned and packaged for offsite shipment. The decision on the laboratory where samples will be sent is still being reviewed by EPA and EG&G.

Section V - Future

Development of OU 5 Presentation

A meeting has been scheduled for August 30, 1993, among the regulatory agencies, RFO, and EG&G. The purpose of the meeting is to develop a presentation discussing recently completed OU 5 field activities, justification for milestone extensions for OU 5, and an overview of the proposed Phase II activities for OU 5.

Data Prepared for the General Accounting Office (GAO)

Data to support the GAO survey of Environmental Restoration Assessment Contracting is being prepared. The RFP Management and Operations (M&O) contractor assessment costs from FY89 through July 1993 have been compiled, and a list of 101 ER assessment subcontracts active in FY93 was prepared. In an agreement with the Albuquerque GAO representative, the original request for a breakdown of subcontract costs into cost elements will be deferred until the GAO reviews the subcontract list. The GAO representative will be back at RFP the week of August 16, 1993, to continue the survey.

Community Relations

ER Community Relations Plan

The ER Community Relations Plan is scheduled to be updated in December 1993. A questionnaire is being developed to send to 35 citizens who will compose a focus group to help revise the plan. Interviews will be conducted in September 1993.

Surface Water video

Editing of the Surface Water video has begun. The video will be shown at the next ER Quarterly Public Information meeting tentatively scheduled for September 28, 1993.

ER93 EXPO

Work is ongoing for the ER exhibit for ER93 to be held in Augusta, GA, in October 1993.

Upcoming Events

August 17, 1993	(Tentative) Public Open House for Programmatic Environmental Impact Statement (PEIS) for Reconfiguration of the Weapons Complex, time and location TBD.
August 18, 1993	(Tentative) Public Scoping Meeting to prepare PEIS for Reconfiguration of the Weapons Complex, at 9:00 a.m. to 9:30 a.m., location TBD.
August 21, 1993	ComRad Environmental Monitoring Station Open House, Northglen, 11:00 a.m. - 3:00 p.m., Northglen Recreation Center, Northglen, CO.
August 24, 1993	Environmental Surveillance Exchange of Information Meeting, 1:30 p.m., Broomfield City Council Chamber, No. 6 Garden Office Center, Broomfield, CO.
August 28, 1993	ComRad Environmental Monitoring Station Open House, Westminster, 11:00 a.m. - 3:00 p.m., Country Side Recreation Center, Westminster, CO.

IAG MILESTONES THROUGH FISCAL YEAR 1994

<u>OU#</u>	<u>Milestone Description</u>	<u>Date Due to EPA/CDH</u>	<u>Status</u>
2	Submit Draft Phase II RFI/RI Report	12 Mar 93	Delinquent
2	Submit Draft Treatability Test Report	18 May 93	Extended to 13 Jul 93
4	Submit Draft Phase I RFI/RI Report	21 May 93	Extended to 14 Sep 93
2	Submit Subsurface Test Plan Site #2	24 Jun 93	Complete
2	Submit Final Treatability Test Report	13 Jul 93	Extended to 8 Sep 93
3	Submit Draft Phase I RFI/RI Report	16 Jul 93	Extension request submitted
6	Submit Draft Phase I RFI/RI Report	04 Aug 93	Extension requested
2	Submit Final Phase I RFI/RI Report	09 Aug 93	*
7	Submit Draft Phase I RFI/RI Report	12 Oct 93	*
4	Submit Final Phase I RFI/RI Report	18 Oct 93	Extended to 14 Feb 94
2	Submit Draft CMS/FS Report	04 Nov 93	*

1	Submit Final Phase III RFI/RI Report	04 Jan 93	Extended to 15 Nov 93
5	Submit Draft Phase I RFI/RI Report	30 Nov 93	
3	Submit Final Phase I RFI/RI Report	13 Dec 93	Extension request submitted
1	Submit Draft Proposed Plan	27 Sep 93	Extension request submitted
1	Submit Final Proposed Plan	04 Jan 94	Extension request submitted
6	Submit Final Phase I RFI/RI Report	07 Jan 94	Extension requested
1	Submit Draft CMS/FS Report	03 Mar 94	Extended to 11 Feb 94
8	Submit Draft Phase I RFI/RI Report	14 Feb 94	*
7	Submit Final Phase I RFI/RI Report	16 Mar 94	*
9	Submit Draft Phase I RFI/RI Report	11 Apr 94	*
4	Submit Draft Phase I Proposed IM/IRA Decision Document	14 Apr 94	*
12	Submit Draft Phase I RFI/RI Report	20 Apr 94	*
4	Submit Draft Phase II Work Plan	22 Apr 94	*
5	Submit Final Phase I RFI/RI Report	03 May 94	*
1	Submit Draft Responsiveness Summary	06 May 94	*
2	Submit Final CMS/FS Report	10 May 94	*
2	Submit Draft Proposed Plan	10 May 94	*
8	Submit Final Phase I RFI/RI Report	12 Jul 94	*
15	Submit Draft Phase I RFI/RI Report	01 Aug 94	On schedule
1	Submit Final CMS/FS Report	03 Aug 94	*
1	Submit Final Responsiveness Summary	03 Aug 94	*
3	Submit Draft Phase I RFI/RI Report	08 Aug 94	*
2	Submit Final Proposed Plan	09 Aug 94	*
10	Submit Draft Phase I RFI/RI Report	25 Aug 94	*
9	Submit Final Phase I RFI/RI Report	06 Sep 94	*
4	Submit Draft Phase I Proposed IM/IRA Decision Document	14 Apr 94	*
7	Submit Draft Phase II RFI/RI Work Plan	13 Sep 94	*
12	Submit Final Phase I RFI/RI Report	15 Sep 94	*
4	Submit Final Phase II RFI/RI Work Plan	19 Sep 94	*
11	Submit Draft Phase I RFI/RI Report	20 Sep 94	*

*Behind original IAG schedule; extension required.